	Application No.	Applicant(s)
Notice of Allowability	10/710,007	ANDERSON ET AL.
	Examiner	Art Unit
	Ida M. Soward	2822
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	or o	n this application. If not included unication will be mailed in due course. THIS
1. This communication is responsive to the application filed Ju	<u>une 11, 2004</u> .	
2. ☐ The allowed claim(s) is/are <u>1-18</u> .		
 Acknowledgment is made of a claim for foreign priority unapplication. a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Application	on No
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give		
 5. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the deposit of the de	on's Patent Drawing Review Amendment / Comment on the Header according to 37 Climits of BIOLOGICAL MAT	r in the Office action of the drawings in the front (not the back) of FR 1.121(d). ERIAL must be submitted. Note the
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0. Paper No./Mail Date 6-11-04 & 10-26-04 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview S Paper No. 8), 7. ☐ Examiner's	Informal Patent Application (PTO-152) Jummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allowance

Application/Control Number: 10/710,007

Art Unit: 2822

DETAILED ACTION

Page 2

This Office Action is in response to the application filed June 11, 2004.

Allowable Subject Matter

Claims 1-18 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art of record does not disclose, make obvious, or otherwise suggest the structure of the applicant's together with the other limitations of the independent claims, such as the at least one underlap region adjacent to the channel doping region positioned between either a source extension or a drain extension and said channel doping region which does not underlap the boundaries of the gate electrode, wherein either a resistance region of said underlap is no more than 30% of an ON-state resistance of said channel doping region, or the underlap region has a doping level no more than 1 x 10¹⁷/cc over a lateral thickness equal to or greater than a thickness of the gate insulator. The dependent claims being further limiting and definite are also allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Page 3

Application/Control Number: 10/710,007

Art Unit: 2822

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following patents are cited to further show the state of the art with respect to field effect transistors having underlap regions:

Bae et al. (US 6,917,085 B2) Cheek et al. (KUS 6,316,302 B1)

Dawson et al. (US 6,661,057 B1) Fulford, Jr. et al. (5,898,202)

Fulford, Jr. et al. (US 6,258,680 B1) Gardner et al. (US 6,388,298 B1)

Jang (5,439,839) Krivokapic (US 6,501,134 B1).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ida M. Soward whose telephone number is 571-272-1845. The examiner can normally be reached on Monday - Thursday 6:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on 571-272-1852. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/710,007

Art Unit: 2822

Page 4

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

IMS October 6, 2005

> AMIN ZARABAN REMINAKE COSS RETUEN DE L'ORINER